

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference 135279 | FOR FURTHER ACTION | see Notification o (Form PCT/ISA/: | f Transmittal of International Search Report 220) as well as, where applicable, item 5 below. |
|--|---|--|--|
| International application No. | International filing date(d | ay/month/year) | (Earliest) Priority Date (day/month/year) |
| PCT/GB93/00531 | 15/03/93 | | 31/03/92 |
| Applicant | | | |
| BRITISH TECHNOLOGY GROUP | LTD et al | | |
| This international search report has been according to Article 18. A copy is being t | | | ority and is transmitted to the applicant |
| This international search report consists of X It is also accompanied by a cop | | sheets. t cited in this repor | t. |
| 1. X Certain claims were found unsea | archable (see Box I). | · | |
| 2. Unity of invention is lacking (see | e Box II). | | |
| The international application co international search was carried | ontains disclosure of a nucleo l out on the basis of the sequ | tide and/or amino a sence listing | acid sequence listing and the |
| filed | d with the international appl | ication. | |
| furi | nished by the applicant separ | | |
| | but not accompanied b matter going beyond the | y a statement to the ne disclosure in the | e effect that it did not include international application as filed. |
| Тга | nscribed by this Authority | | |
| 4. With regard to the title, X the | text is approved as submitte | ed by the applicant | |
| the | text has been established by | this Authority to | read as follows: |
| | | | |
| 5. With regard to the abstract, | | | |
| X the | text is approved as submitte | ed by the applicant | |
| Bo | text has been established, as x III. The applicant may, wi rch report, submit comment | thin one month fro | .2(b), by this Authority as it appears in m the date of mailing of this international |
| 6. The figure of the drawings to be pub | lished with the abstract is: | | |
| | suggested by the applicant. | | None of the figures. |
| | ause the applicant failed to s | | _ |
| bec | ause this figure better chara | cterizes the invention | DI. |



International application No.

PCT/GB93/00531

| BOX I | Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet) |
|-------------|--|
| This int | ernational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: |
| 1. X | Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Remark: Although claims 8-11 and 13-16 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compounds. |
| 2. | Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: |
| 3. | Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). |
| Box II | Observations where unity of invention is lacking (Continuation of item 2 of first sheet) |
| This Inte | ernational Searching Authority found multiple inventions in this international application, as follows: |
| 1. | As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. |
| 2. | As all searchable claims could be searches without effort justifying an additional fee, this Authority did not invite payment of any additional fee. |
| 3. | As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: |
| 4. | No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: |
| Remark | The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees. |

International Application No

PCT/GB 93/00531

LASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) According to International Patent Classification (IPC) or to both National Classification and IPC Int.C1. 5 C07J43/00; A61K31/58 II. PIELDS SEARCHED Minimum Documentation Searched? Classification Symbols Classification System Int.C1. 5 C07J ; **A61K** Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched® III. DOCUMENTS CONSIDERED TO BE RELEVANT⁹ Citation of Document, 11 with indication, where appropriate, of the relevant passages 12 Relevant to Claim No.13 Category o 1-3.5 X BULLETIN OF THE POLISH ACADEMY OF SCIENCES. CHEMISTRY vol. 33, no. 1-2, 1985, WARSAW PL pages 19 - 27 J. WICHA ET AL 'Cardiotonic Steroids. Part 8. Synthesis of 17.beta.(3'-pyridyl)-14.be ta.-Androst-4-ene-3.beta.14-diol from 17-Oxoandrostane Derivatives' see page 21, compound 13 1,7,12 EP, A, O 413 270 (MERRELL DOW A PHARMACEUTICALS INC.) 20 February 1991 see the whole document EP,A,O 288 053 (MERRELL DOW 1,7,12 PHARMACEUTICALS INC.) 26 October 1988 see the whole document -/--° Special categories of cited documents: 10 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family IV. CERTIFICATION Date of the Actual Completion of the International Search Date of Mailing of this International Search Report 24 JUNE 1993 1 5. 07. 93 Signature of Authorized Officer International Searching Authority **EUROPEAN PATENT OFFICE** WATCHORN P.W.

| |) |
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| AHerdon B | J |

| | ENTS CONSIDERED TO BE RELEVANT (CONTINUED FROM THE SECOND SHEET) | Relevant to Claim No. |
|------------|--|------------------------|
| Category o | Citation of Document, with indication, where appropriate, of the relevant passages | Research to Citing No. |
| | | |
| ^ | BULLETIN OF THE POLISH ACADEMY OF SCIENCES. CHEMISTRY | 1 |
| | vol. 32, no. 1-2, 1984, WARSAW PL pages 75 - 83 | |
| | J. WICHA ET AL 'Cardiotonic Steroids. Part | |
| | 7. Synthesis of 17.betaPyridyl-androstane Derivatives¹ | |
| : | see page 77, compound 11 | |
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| | vol. 16, no. 4, 1981, AMSTERDAM NL | |
| | pages 521 - 524 J. WICHA ET AL 'Synthesis of | |
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| | vol. 20, no. 2, 1983, AMSTERDAM NL pages 231 – 234 | |
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ANNEX TO THE INTERNATIONAL SEARCH REPORT ON INTERNATIONAL PATENT APPLICATION NO.

9300531 GB SA 71781

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on

The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

24/0 24/06/93

| Patent document cited in search report | Publication date | | | Publication date |
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